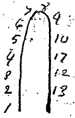
Menlo Park Notebook #167 [N-80-09-03]

This notebook covers the period August-September 1880. It was used by various members of the laboratory staff to record notes and drawings relating to tests of lamps, carbons, and vacuums. The label on the front cover is marked "Book for lamps Sep 3, 1880." The book contains 284 numbered pages.

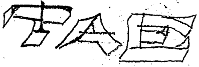
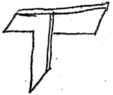
Blank pages not filmed: 26-27, 52-91, 104-109, 116-125, 128-231, 238-239, 242-259, 262-281.

X E-172 N-80-09-03



4:5/1

4/1
2/8
3/1

No Lamp	Remarks
1	Large Bamboo Aug 14 1880 the carbon had a Bad spot Close to the clamp on the Positive side and Broke with free current By T A E
2	Large Bamboo  TAE
3	Regular  T
4	Regular

No Imp	Remarks
5	Large Bamboo
6	Large Bamboo
7	Regular
8	Large Bamboo Broke By falling on the floor-

No. Lamp.	Remarks
9	Large Bamboo
10	Regular No 2
11	Large Bamboo
12	Large Bamboo

No Lamp	Remarks
13	Regular No 2
14	Regular No 2
15	Regular No 3
16	Large Bamboo

No Lamp	Remarks
17	Regular No 3 Carbon Was split in Clamp
18	Regular No 2
19	Regular
20	~~Regular~~

No Samp	Remarks
21	Regular No 2
22	Regular No 3
23	Regular No 2
24	Regular

No Lamp	Remarks
25	Regular No 2
26	Regular No 2
27	Regular no 3
28	Regular no 3

No Long.	Remarks
29	Regular No 2
30	Regular No 4
31	Regular No 4
32	Regular No 4.

No Jany.	Remarks
33	Regular No 5
34	Regular No 4
35	Regular No 4
36	Regular No 3

No Tag	Remarks
37	Regular No 4
38	Regular No 4
39	Regular no 5
40	Regular No 4

No Lamp	Remarks
41	Regular no 3
42	
43	
44	

No Jump	Remarks
45	
46	
47	
48	

No Gang-	Remarks
49	
50	
51	
52	

Hied Tested Sep 10, 1880

good	Bad
𝍸 𝍸 𝍸 𝍸 𝍸	||||

Hill Tested Sep 18 1880

GOOD	BAD SPOTS ALL OVER	SINGLE BAD SPOTS	BRIGHT on one SIDE	BROKE IN HANDLING	SPLIT IN FIBER	SPLIT IN CLAMP	BAD SPOTS IN MIDDLE
𝍸 𝍸 𝍸 𝍸 𝍸	𝍸 𝍸 𝍸 |		||||	||		|	|

RECEIVE.FROM.FLAMER
56. 7 Left on the pump

Hill Tested Sep 20

GOOD	BAD SPOTS ALL OVER	SINGLE BAD SPOTS	BRIGHT on one side	Broke in handling	split in filters.	split in clamps	Bad spots in middle
卌 卌 卌	卌 |||	||	卌	|		|	

Received from Flames-
34. 3 left on pump

H

Hill Tested Sep 21 1889

Good	BAD SPOTS ALL OVER	SINGLE BAD SPOTS	BRIGHT ON ONE SIDE	BROKE IN HANDLING	SPLIT IN FIBER	SPLIT IN CLAMP	BAD SPOTS IN MIDDLE CARBON
/	///						

Hill Tried also

Good	Bad spots all over.	Bright on one side	Broke in handling	Split in Fibes.

Split in Clamp

Bad spots in middle of Carbon

Hill Tested Sefo

Good } Bad spots all over } Bright on one side } Broke in handling

Split in Fiber } Split in Clamp } Bad spots in middle of the carbons

Hill Tested Sep 1880

Good	Bad spots all over	Single Bad spot	Bright in one side
Broke in handling	Split in Fiber	Split in Clamp	Bad spots in middle of Carbons

Hill Tester Sept 1880

good	Bead spots all over-	Single Ball spots	Bright on one side
Broke in handling	Split in Fiber-	Split in Clamp	Ball spots in middle of Carbon

Nov 9 1880

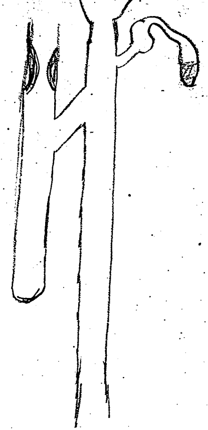
Carbon tester- Started 2-20
this pump has got the mill full
Tube contraction 30 - tube 130
the spark began to show
in 3 minuts
5 minuts 1/8
10 minuts spark 1/2 in along the wire
12 -- The spark has all a long
one Wire
13 -- the spark was
on Both Wires
Stopped the pump after it
had Run 15 minuts the spark
had almost Left the guage

by three different ways
of bringing up Lamps

first way bring the
Carbon up to a
invisable Red bring to
25 Candles and burn
for a few minuts at 25
and then to 16 and burn
for one hour

Second way put the
Current on with one
hundred ohms Res
and let burn ~~for about
one hour without stopping~~
untill you get a good
Vacuum

~~3 treat for Lamps~~
~~have two hundred ohms Res~~
~~for this Lamp and then~~
~~get a high Vacuum~~
~~and Touch the switch~~
~~for instant only~~
~~do not Let Run when~~
~~any air is coming out~~
~~of the Carbon~~



Dec 15 - 1880

try three Lamps and see if they test different from one another =

Put a Lamp on the (No 1 Lamp) pump and have 7 or 8 hundred Ohms Res and bring to an invisible; Red and bring up to 25 candles for a few minuts and then to 16 and Run for one hour at 16 Candles

Dec 15- No 2 Lamp-

Put on the pump and
have one hundred [illegible]
Kee get a high Vacuum
and then put the
current on and dont
take it off untill
you get a high Vacuu

Lamp No 2 Dec 15 —

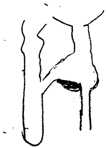
Put the Lamp on pump and get a high Vacuum and ~~then~~ touch the Switch for instant only dont Let it Burn untill 15 minutes before it is Ready to come off an then Let Burn for 15 minutes Before taken off have about five hundred ohms Res dont put the ~~switch~~ current on when again- [illegible]

a burning out of the Carbons —

Dec 13 - 1880

the Latest from T.A.E on heating the Lamps is When you get a good Vacuum heat With all your- Resistance in an invisible Red Keep the Current on untill you cant see any air a Coming out then put in one Plug and let the air all go a gain then Second and third Plug the same as first then use your Resistance Board untill you set your Lamp up to 25 candles let burn untill all the air is gone and then let your Lamp burn for 80 minuts at 16 Candles

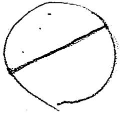
Mar 12 1880



Dec 27 1880

Pump 30X130 it Breaks the face tube When used a short time

No of Lamp	Exhausted	Sealed off			



121
142
124

No off Pump	STARTED	SEALED OFF	Remarks
~~105~~	~~830~~	~~30~~	~~broke in the combustion~~

0864
0864
6464
9586
7778 5990

0792
0792
6464
9957
8005 6326

No of Family	[illegible]		Remarks

Oct 4 Carbon Testers

40x145 did not get a
Vacum quick Enough ~~st~~
stopped to try another-

Tester-50 – 120
started 10-45
the fall tube was to
small for the contractions
and dident take out
any air-

Tester-50 X 130
Started 11+30
did not work the
Contractions was to large
for the fall tube

Tester- 50+145
Started at 2 50

Runs to much mercury and could not get a vacuum NG

80x145 ~~Started - 2 50~~
Started 205

50x115 started 235
no since the feed tube was to small and did not take the air out fast Enough

Tests- 30-130
the spark was ~~half~~
half way down [illegible]
the wires in 15 minutes stoped
to try it the second time

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started the second time
at 605 the cork leaked and
did not get a vacuum

Started again at 720
and broke the pump

Sat Nov 19 1880

heated the mercury to 180 degrees and then started the pump at 108 the spark left in 14 minutes

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Started the pump With Lamp on at 126

oct 4

~~Carbon Tester-~~

~~40 by 145~~

~~14 By 92~~

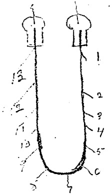
~~16x118~~

~~16x106~~

~~30 X 130~~

Oct. 13 Tested Carbons

Oct. 14. 1880
Position of faults
in Testing
Carbons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